

ABSTRACT

A method and system for performing kernel-mode operations. A kernel-mode-generator-dynamically generates a kernel-mode interface generator and generates a call gate, which performs a Ring 0 authorization operation in a kernel mode. An authorization interface connects a user mode and the kernel mode and switches a process from the user mode to the kernel mode via the call gate to perform the Ring 0 authorization operation. A kernel-mode interface generator is provided for dynamically generating a kernel-mode interface driver. The kernel-mode interface driver in turn generates a call gate to perform a kernel-mode operation with kernel-mode authorization in a kernel mode. An authorization interface is coupled to the kernel-mode interface generator. The authorization interface connects a user mode to kernel mode, switching a process from user mode to kernel mode via the call gate to perform the kernel-mode operation.